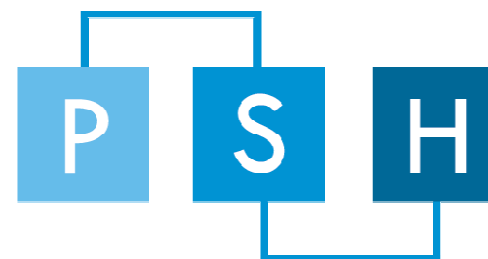


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Polythematic Structured Subject Heading System & Creative Commons



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Overview

- Context of grey literature
- Knowledge organisation systems
 - Assisting authors
 - Enhancing user interface
 - Linked data
 - Simple Knowledge Organisation System
- Polythematic Structured Subject Heading System
- Creative Commons licences

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Context of grey literature

- grey literature is characterization of the distribution mode
- not available through conventional publishing channels
- lacks commercial and bibliographic control
- escape the established means to preserve information

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Role of knowledge organisation systems

- e.g. controlled vocabularies, thesauri, or subject classifications
- standards ensuring consistency of subject indexing
- improving access to the indexed documents
- terminology services

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Assisting authors

- metadata snippets generation
- tagging
- automatic indexing
 - Examples: [CDSInvenio BibClassify](#), [Maui Indexer](#)



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Examples – Manually assigned subject headings

- knowledge systems
- subject information languages
- grey literature
- intellectual property law
- licences

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Examples – CDS Invenio BibClassify

- grey literature
- science
- www
- licences
- plant developmental stages
- author
- work
- datatheory
- documents
- copyright
- resources

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Examples – Maui Indexer

- grey literature
- search engines
- word-order
- republic
- copyright

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Examples – Alchemy API tags

- grey literature
- PSHdevelopment process
- PSHmeeting
- message psh
- indexing grey literature
- knowledge organisation systems
- subject heading system
- CClicences
- grey literature authors
- grey literature documents

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Enhancing user interface

- search query refinement
 - spelling corrections
 - auto-completion
 - semantic query expansion
- hierarchical navigation
- social tagging

Linked data

- linked data is away of publishing documents and dataas mutually interlinked webresources
- utilizes semantic webtechnologies (RDF, URIs)
- linked dataprinciples and best practices
 - link torelated resources
 - HTTPURIs aspersistent and interoperable identifiers
- tagging
 - Examples: DublinCore, Meaning-of-a-Tag, CommonTag

Simple Knowledge Organisation System (SKOS)

- provides means for expressing standard relationships that can be found in most thesauri or subject headings systems
- based on RDF, RDFSchema, OWL
- W3C working recommendation
- widely used in libraries (National Library of Sweden, Library of Congress, National Technical Library in Prague)

SKOS example

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<rdf:RDF
```

```
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:skos="http://www.w3.org/2004/02/skos/core#">
```

```
<skos:Concept rdf:about="http://psh.ntkcz.cz/skos/PSH6454">
```

```
  <skos:prefLabel xml:lang="cs">firemní literatura</skos:prefLabel>
```

```
  <skos:prefLabel xml:lang="en">grey literature</skos:prefLabel>
```

```
  <skos:broader rdf:resource="http://psh.ntkcz.cz/skos/PSH6449" />
```

```
  <skos:inScheme rdf:resource="http://psh.ntkcz.cz/skos" />
```

```
</skos:Concept>
```

```
</rdf:RDF>
```

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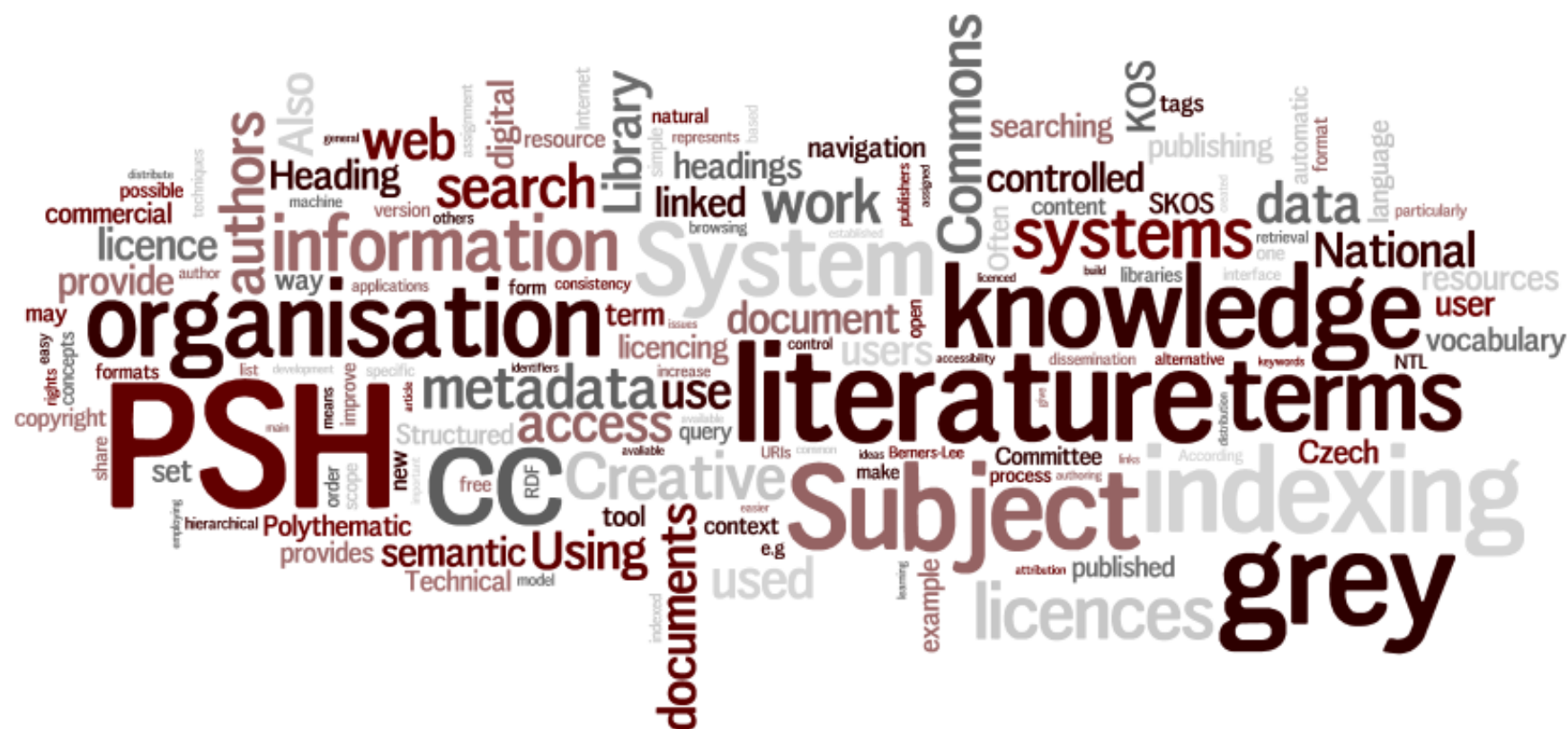


<http://www.flickr.com/photos/espanaphotography/2480843134/>

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Polythematic Structured Subject Heading System (PSH)

- is bilingual (Czech-English)
- is a tool to organize and search for documents
- contains over 13500 subject headings
- subject headings are included in a hierarchy of six or seven levels

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PSH structure

- atree structure
- is divided into 44thematic sections
- hierarchical relations
- associative relations („see also“)
- equivalence relations („see“)

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Česky English

Úvodní stránka Služby Uživatelské konto Katalogy a databáze O nás Formuláře Kontakty Mapa stránek

Navigace: Úvodní stránka Katalogy a databáze PSH Prohlížení PSH

Prohlížení PSH 627

Služby 630

Národní technická knihovna 614

Ka stažení 540

Publikace a odkazy 104

Související dokumenty 547

Kontakty 543

English version 104

chemistry

URI: <http://psh.ntkcz.cz/skos/PSH6430/>

Czech equivalent: chemie

Related terms:

- subjects

Narrower terms:

- agrochemistry
- analytical chemistry
- biochemistry
- chemical industry
- environmental chemistry
- food chemistry
- general chemistry
- inorganic chemistry
- macromolecular chemistry
- organic chemistry
- pH
- physical chemistry
- toxicology
- analytical chemistry
- chemical industry
- food chemistry
- inorganic chemistry
- nuclear chemistry
- petrochemistry
- pharmaceutical chemistry
- quantum chemistry

Česky English

Search term

URI: <http://psh.ntkcz.cz/skos/PSH6430/>

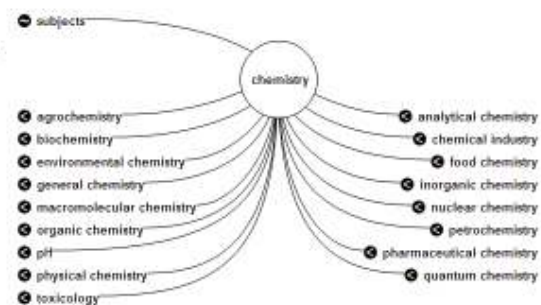
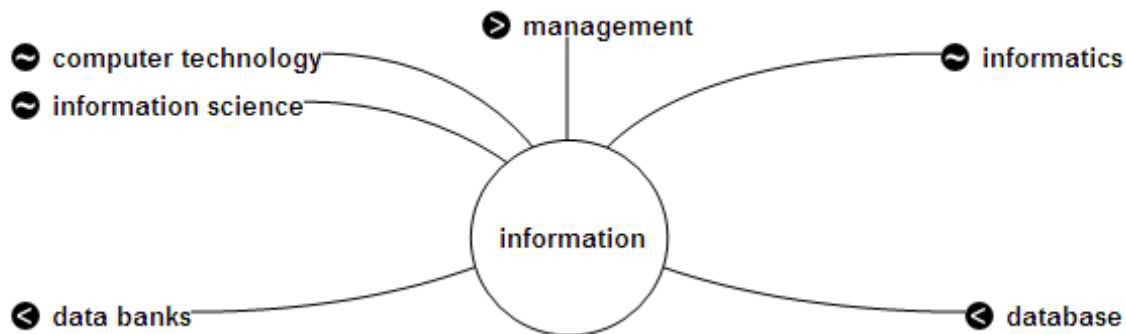
Czech equivalent: chemie

Related terms:

- subjects

Narrower terms:

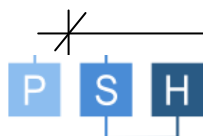
- agrochemistry
- analytical chemistry
- biochemistry
- chemical industry
- environmental chemistry
- food chemistry
- general chemistry
- inorganic chemistry
- macromolecular chemistry
- organic chemistry
- pH
- physical chemistry
- toxicology
- analytical chemistry
- chemical industry
- food chemistry
- inorganic chemistry
- nuclear chemistry
- petrochemistry
- pharmaceutical chemistry
- quantum chemistry



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information science

URI: <http://psh.ntkcz.cz/skos/PSH6445>

Czech equivalent: informační věda

Related terms:

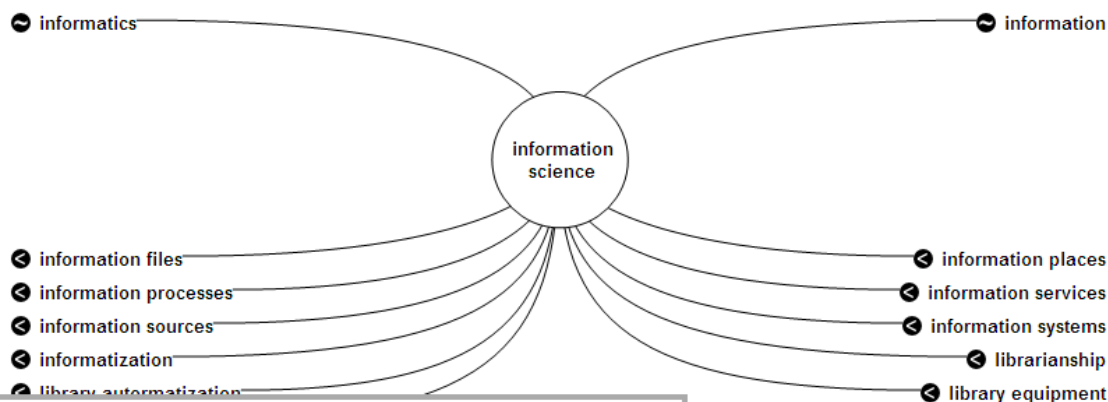
- informatics
- information

Narrower terms:

- information files
- information places
- information processes
- information services
- information sources
- information systems
- informatization
- librarianship
- library automatization
- library equipment
- user instruction

Term display in SKOS format

Hide tag from controlled vocabulary



These metadata snippets can be embedded in an HTML document to achieve its semantic description:

Dublin Core:

```
<p about="" xmlns:dc="http://purl.org/dc/elements/1.1/">
  <a href="http://psh.ntkcz.cz/skos/PSH6445"
    rel="dc:subject">information science</a>
</p>
```

CommonTag:

```
<body xmlns:ctag="http://commontag.org/ns#" rel="ctag:tagged">
  <span typeof="ctag:Tag" rel="ctag:means"
    resource="http://psh.ntkcz.cz/skos/PSH6445" property="ctag:label"
    content="information science" />
</body>
```

PSH in indexing and retrieval systems can serve to provide:

- means by that the use of terms may be standardized
- controlled hierarchies so that a search can be narrowed or broadened systematically
- a guide for users of the system for choosing the correct term for a subject search
- a navigation tool through the set of subject headings and their relations
- and to correct spelling errors

Creative Commons (CC)

Share, Remix, Reuse – Legally

- CC defines the spectrum of possibilities between full copy right and public domain
- offers free licences
- authors can choose one of the CC licences and thereby provide the opportunity to share the work with others
- CC licences work along copyright




Creative Commons Rights Expression Language (ccREL)

- RDF-based format
- can be serialised to fit in various document formats (HTML, PDF)
- ccREL serves as an explicit metadata connection between the document and the abbreviated version of licence
- enables indexing by search engines which in turn increases visibility of the licenced work

PSH under Creative Commons Licence

■ CC-BY-NC-SA

Attribution Non-Commercial Share Alike 3.0(Czech)

	Attribution	You must attribute the work in the manner specified by the author or licensor.
	Noncommercial	You may not use this work for commercial purposes.
	Share Alike	If you alter, transform, or build upon this work, you may distribute the resulting work only under the same, similar or a compatible license.

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CC-BY-NC-SA



You are free:

- to copy, distribute, display and perform the PSH
- to make derivative works

But:

- you must give the original author credit
- you may not use this work for commercial purposes
- if you alter, transform, or build upon this work, you may distribute the resulting work only under an identical licence that governs PSH

Key motivating factors to release PSH under CC licence include:

- Encourage library community and also Internet users contribution of knowledge to participate in NTL projects including PSH.
- Dissemination of PSH, where possible, in open formats and as open data.
- Give others easy access and the right to use PSH without seeking NTL's permission.
- NTL wants to take every opportunity to communicate new ideas broadly and seek feedback.

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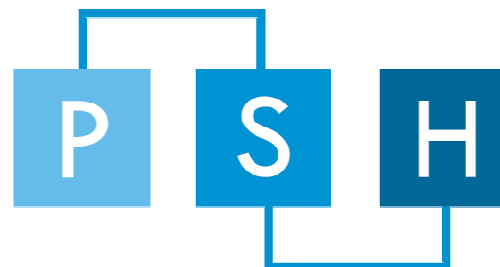
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Related links

PSH

- <http://www.techlib.cz/cs/katalogy-a-databaze/psh/>
- <http://www.techlib.cz/cs/katalogy-a-databaze/psh/prohlizeni-psh/>



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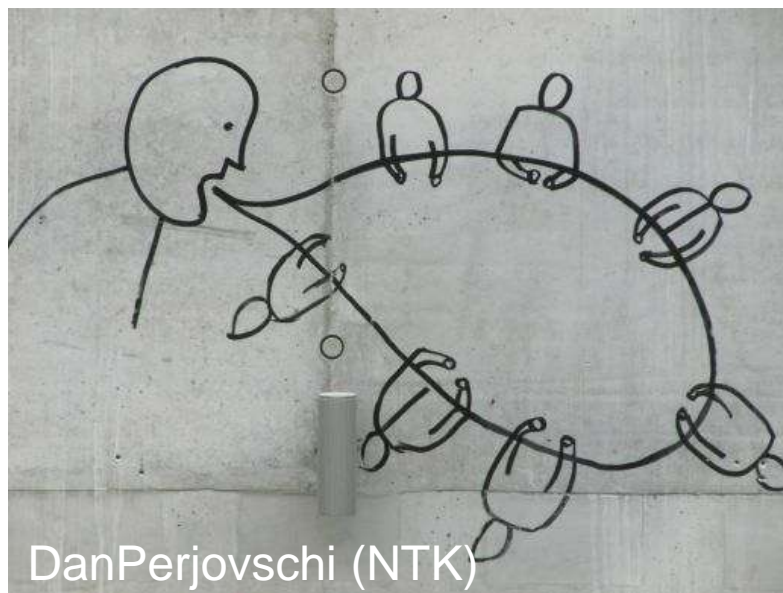
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Thank you for your attention.

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DanPerjovschi (NTK)